

FORM PTO-1449 (Rev. 2-32)	U.S. Department of Commerce Patent and Trademark Office	Atty. Docket No. MBHB02-325-A (400/047)	Serial No. 10/712,633
1 st SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary)		Applicant: Pavco et al.	
		Filing Date: November 13, 2003	Group: 1635

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PATENT & TRADEMARK OFFICE

FOREIGN PATENT DOCUMENTS

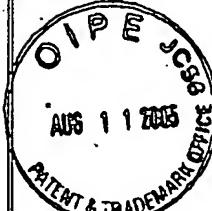
	Document Number	Date	Country	Class	Subclass	Translation	
						Yes	No
<i>JL</i>	* WO 97/15662	05/01/97	WO (Pavco et al.)				
<i>JL</i>	1. WO 03/070910	08/28/03	WO (McSwiggen et al.)				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

2.	<i>Reviewed document, but Search Report is not considered Non-Patent Literature</i> European Search Report from EP 02752028 mailed October 8, 2004
<i>JL</i>	3. Parrish, "Functional Anatomy of a dsRNA Trigger: Differential Requirement for the Two Trigger Strands in RNA Interference," <u>Molecular Cell</u> 6:1077-1087 (2000)
<i>JL</i>	* McLaren, "Vascular Endothelial Growth Factor and Endometriotic Angiogenesis," <u>Human Reproduction Update</u> 6:45-55 (2000)
<i>JL</i>	* Elbashir et al., "Duplexes of 21-nucleotide RNAs mediate RNA interference in cultured mammalian cells," <u>Nature</u> 411:494-498 (2001)

EXAMINER <i>Janet F. Eggers-Ford</i>	DATE CONSIDERED 11-07-05
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EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

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						Yes	No
	1. 03/070887	08/28/03	WO (McSwiggen et al.)				
	2. 03/070896	08/28/03	WO (McSwiggen et al.)				
	3. 03/074654	09/12/03	WO (McSwiggen et al.)				

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

4.	International Search Report for PGT/US2004/027403 mailed July 12, 2005	<i>Reviewed but not considered</i> NPZ
5.	Jen et al., "Suppression of gene Expression by Targeted Disruption of Messenger RNA: Available Options and Current Strategies," <i>Stem Cells</i> , 18:307-319 (2000)	
6.	Kuwabara et al., "A <i>C. elegans</i> patched gene, <i>ptc-1</i> , functions in germ-line cytokinesis," <i>Genes and Development</i> , 14(15):1933-1944 (2000)	

EXAMINER	<i>John L. Hayes, Jr.</i>	DATE CONSIDERED	<i>11-07-05</i>
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U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial		Document Number	Filing Date	Name	Class	Subclass	Publication Date if Appropriate
<i>JL</i>	*	US 2003/0190635	10/2003	McSwiggen et al.			
<i>JL</i>	*	US 2003/0206887	11/2003	Morrissey et al.			

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>JL</i>	*	5,814,620	09/28/98	Robinson et al.			
<i>JL</i>	*	5,998,203	12/1999	Matulic-Adamic et al.			
<i>JL</i>	*	6,506,559	01/14/03	Fire et al.			

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Translation	
							Yes	No
<i>JL</i>	1.	2,359,180	03/08/00	CA (Kreutzer et al.)				
<i>JL</i>	2.	1325955	07/09/03	EP (Klippel-Giese et al.)				

EXAMINER	<i>Janet L. Engs Ford</i>	DATE CONSIDERED	<i>11-07-05</i>
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Copy - Was not provided by Applicants.

<i>JK</i>	2a. 08208687	08/1996	JP (Hotoda et al.)				
	3. 90/14090	11/29/90	WO (Gillespie et al.)				
	4. 94/01550	01/20/94	WO (Agrawal et al.)				
	5. 97/21808	06/19/97	WO (Robinson)				
	6. 99/49029	09/30/99	WO (Graham et al.)				
	7. 00/49035	08/24/00	WO (Sheen et al.)				
	8. 01/097850	12/27/01	WO (Siemeister et al.)				
	9. 01/96584	12/20/01	WO (Mushegian et al.)				
	10. 02/07747	01/31/02	WO (King)				
	11. 02/10378	02/07/02	WO (Cowser et al.)				
	12. 02/22636	03/21/02	WO (Bennett et al.)				
	13. 03/068797	08/21/03	WO (Rossi et al.)				
	14. 03/070910	08/28/03	WO (McSwiggen et al.)				
	15. 03/080638	10/02/03	WO (Lacasse et al.)				
	16. 04/009769	01/29/04	WO (Tolentino et al.)				
<i>JK</i>	17. 04/043977	05/27/04	WO (Prakush et al.)				
	18. 04/072261	08/26/04	WO (Li et al.)				

EXAMINER	<i>Jan H. Engs-Ford</i>	DATE CONSIDERED
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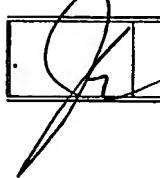
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.).

✓	19.	Anderson et al., "Bispecific Short Hairpin siRNA Constructs Targeted to CD4, CXCR4, and CCR5 Confer HIV-1 Resistance," <i>Oligonucleotides</i> , 13:303-312 (2003)
✓	34.	Bayard et al., "Increased stability and antiviral activity of 2'-O-phosphoglyceryl derivatives of (2'-5')oligo(adenylate)," <i>Eur. J. Biochem.</i> , 142(29):291-298 (1984)
✓	20.	Elbashir et al., "Functional Anatomy of siRNAs for Mediating Efficient RNAi in <i>Drosophila Melanogaster</i> Embryo Lysate," <i>The EMBO Journal</i> 20:6877-6888 (2001)
✓	21.	Futami et al., "Induction of apoptosis in HeLa cells with siRNA expression vector targeted against bcl-2," <i>Nucleic Acids Research Supplement</i> , 251-252 (2002)
	22.	International Search Report for PCT/US02/17074 mailed November 12, 2002
	23.	International Search Report for PCT/US03/05022 mailed January 6, 2005
	24.	International Search Report for PCT/US03/05028 mailed October 17, 2003
	25.	International Search Report for PCT/US03/05346 mailed October 17, 2003
	26.	International Search Report for PCT/US2004/016390 mailed March 31, 2005
	27.	International Search Report for PCT/US2004/030488 mailed January 12, 2005
✓	28.	Leirdal et al., "Gene silencing in mammalian cells by preformed small RNA duplexes," <i>Biochemical and Biophysical Research Communications</i> , 295, 744-748 (2002)
✓	29.	Lin et al., "A Novel mRNA-cRNA Interference Phenomenon for Silencing bcl-2 Expression in Human LNCaP Cells," <i>Biochemical and Biophysical Research Communications</i> , 281, 639-644 (2001)
✓	35.	Lu et al., "Tumor Inhibition By RNAi-Mediated VEGF and VEGFR2 Down Regulation in Xenograft Models," <i>Cancer Gene Therapy</i> , 10, Suppl. 1, S4-S5 (2003)
✓	30.	Parry et al. 1999. "Bioactivity of anti-angiogenic ribozymes targeting Flt-1 and KDR mRNA," <i>Nucleic Acid Res.</i> 27:2569-77.
✓	31.	Tuschl et al., "Small Interfering RNAs: A Revolutionary Tool for Analysis of Gene Function and Gene Therapy," <i>Molecular Interventions</i> , 295, 3, 158-167 (2002)

EXAMINER	<i>Patreyes 2001</i>	DATE CONSIDERED	<i>11-07-05</i>
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	32. Tuschl, "RNA Interference and Small Interfering RNAs," <u>Chembiochem</u> 2:239-245 (2001)
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U.S. PATENT APPLICATION DOCUMENTS

Examiner Initial	Document Number	Date	Name	Class	Subclass	Publication Date If Appropriate
	08/584,040	01/11/96	Pavco et al.			
	08/878,640	07/19/97	Usman et al.			
	09/205,520	12/03/98	Sullenger et al.			
	09/301,511	04/28/99	Beigelman et al.			
	09/371,772	08/10/99	Pavco et al.			
	09/476,387	12/30/99	Beigelman et al.			
	09/708,690	11/07/00	Pavco et al.			
	09/870,161	05/29/01	Pavco et al.			
	09/877,526	06/08/01	Usman et al.			
	09/918,728	07/31/01	Beigelman et al.			
	10/138,674	05/03/02	Pavco et al.			
	60/005,974	10/26/95	Pavco et al.			
	60/082,404	04/20/98	Thomspson et al.			
	60/101,174	09/21/98	Hartmann et al.			
	60/334,461	11/30/01	Sandberg et al.			

U.S. PATENT DOCUMENTS

EXAMINER	<i>Janet L. Goss-Jord</i>	DATE CONSIDERED
		10-7-05

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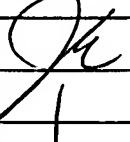
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Examiner Initial	Document Number	Date	Name	Class	Subclass	Filing Date if Appropriate
<i>CE</i>	* 4,987,071	01/22/91	Cech et al.			
	* 5,270,163	12/14/93	Gold et al.			
	* 5,334,711	08/02/94	Sproat et al.			
	* 5,475,096	12/12/95	Gold et al.			
	* 5,525,468	06/11/96	McSwiggen et al.			
	* 5,589,332	12/31/96	Shih et al.			
	* 5,624,803	04/29/97	Noonberg et al.			
	* 5,631,359	05/20/97	Chowrira et al.			
	* 5,670,633	09/23/97	Cook et al.			
	* 5,627,053	05/06/97	Usman et al.			
	* 5,672,695	09/30/97	Eckstein et al.			
	* 5,716,824	02/10/98	Beigelman et al.			
	* 5,741,679	04/21/98	George et al.			
	* 5,792,847	08/11/98	Buhr et al.			
	* 5,807,718	09/15/98	Joyce et al.			
	* 5,834,186	11/10/98	George et al.			
<i>On</i>	* 5,849,902	12/15/98	Arrow et al.			

EXAMINER	DATE CONSIDERED
<i>John H. Englehardt</i>	11-07-05

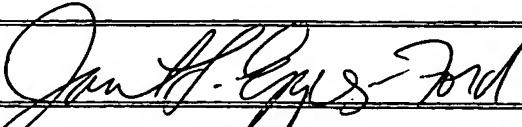
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	*	5,854,038	12/29/98	Sullenger and Cech				
	*	5,871,914	02/16/99	Nathan et al.				
	*	5,898,031	04/27/99	Crooke				
	*	5,989,912	11/23/99	Arrow et al.				
	*	6,001,311	12/14/99	Brennan				
	*	6,005,087	12/21/99	Cook et al.				
	*	6,107,094	08/22/00	Crooke				
	*	6,127,173	10/03/00	Eckstein et al.				
	*	6,159,714	12/12/00	Usman et al.				
	*	6,180,613	01/30/01	Kaplitt et al.				
	*	6,300,074	10/09/01	Gold et al.				
	*	6,346,398	02/12/02	Pavco et al.				
	*	6,476,205	11/05/02	Buhr et al.				
	*	6,566,127	05/20/03	Pavco et al.				

FOREIGN PATENT DOCUMENTS

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<i>Joe</i>	*	360257	03/28/90	EP (Hampel et al.)			
	*	89/02439	03/23/89	WO (Arnold et al.)			
	*	91/03162	03/21/91	WO (Rossi et al.)			
	*	92/07065	09/23/91	WO (Eckstein et al.)			
	*	93/15187	08/05/93	WO (Usman et al.)			
	*	93/23057	11/25/93	WO (Thompson et al.)			
	1.	93/23569	11/25/93	WO (Draper et al.)			
	*	94/02595	02/03/94	WO (Sullivan et al.)			
	*	95/04142	02/09/95	WO (Robinson)			
	*	95/04818	02/16/95	WO (Draper et al.)			
	*	95/06731	03/09/95	WO (Usman et al.)			
	*	95/11304	Ck date	WO (Usman et al.)			
	*	95/11910	05/04/95	WO (Dudycz et al.)			
	*	95/13380	05/18/95	WO (Draper et al.)			
	*	95/21868	08/17/95	WO (Rockwell et al.)			
	*	95/23225	08/31/95	WO (Stinchcomb et al.)			
	*	96/10390	04/11/96	WO (Asnell et al.)			
	*	96/10391	04/11/96	WO (Holland et al.)			

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<i>JK</i>	*	96/10392	04/11/96	WO (Choi et al.)							
	2.	96/18736	06/20/96	WO (Beigelman et al.)							
	*	96/22689	08/01/96	WO (Pyle et al.)							
	3.	97/15662	05/01/97	WO (Pavco et al.)							
	*	97/26270	07/04/97	WO (Wincott et al.)							
	*	98/13526	04/02/98	WO (Woolf et al.)							
	*	98/27104	06/25/98	WO (Breaker et al.)							
	*	98/28317	07/02/98	WO (Karpeisky et al.)							
	4.	98/43993	03/30/98	WO (Breaker et al.)							
	*	98/58058	12/23/98	WO (Ludwig et al.)							
	5.	99/04819	02/04/99	WO (Klimuk et al.)							
	6.	99/05094	02/04/99	WO (Beigelman et al.)							
	7.	99/07409	02/18/99	WO (Deschamps de Paillette et al.)							
	8.	99/14226	09/14/98	WO (Wengel et al.)							
	*	99/16871	04/08/99	WO (Eckstein et al.)							
	9.	99/32619	07/01/99	WO (Fire et al.)							
	10.	99/49029	09/30/99	WO (Graham et al.)							
<i>JK</i>	11.	99/53050	10/21/99	WO (Waterhouse et al.)							
	12.	99/54459	10/28/99	WO (Thompson et al.)							

EXAMINER: <i>John P. Englehardt</i>	DATE CONSIDERED: 11-07-05
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<i>[Signature]</i>	*	99/55857	11/04/99	WO (Beigelman et al.)						
	13.	99/61631	12/02/99	WO (Heifetz et al.)						
	14.	99/63116	12/09/99	WO (Storella et al.)						
	15.	00/01846	01/13/00	WO (Plaetinck et al.)						
	*	00/24931	05/04/00	WO (Nathan et al.)						
	*	00/26226	05/11/00	WO (Breaker et al.)						
	16.	00/44895	08/03/00	WO (Kreutzer et al.)						
	17.	00/44914	08/03/00	WO (Li et al.)						
	18.	00/63364	10/26/00	WO (Pachuk et al.)						
	19.	00/66604	05/04/00	WO (Wengel et al.)						
	20.	00/73416	12/07/00	WO (Labarbera et al.)						
	21.	01/29058	04/26/01	WO (Mello and Fire)						
	22	01/32920	05/10/01	WO (Pappa)						
	23.	01/36646	05/25/01	WO (Zernicka-Goetz et al.)						
	24.	01/75164	10/11/01	WO (Tuschl et al.)						
<i>[Signature]</i>	25.	02/096927 (PCT/US02/17674)	12/05/02	<u>Escobedo et al.</u>						

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).

<i>[Signature]</i>	*	Aiello et al., "Suppression of Retinal Neovascularization <i>in vivo</i> by Inhibition of Vascular Endothelial Growth Factor (VEGF) Using Soluble VEGF-Receptor Chimeric Proteins."
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<i>JK</i>	Proc. Natl. Acad. Sci. USA 92: 10457-10461 (1995)		
	*	Aiello, et al., "Vascular Endothelial Growth Factor in Ocular Fluid of Patients with Diabetic Retinopathy and Other Retinal Disorders," 1994 <i>New Engl. J. Med.</i> 331, 1480	
	*	Akhtar and Juliano, "Cellular Uptake and Intracellular Fate of AntiSense Oligonucleotides," <i>Trends Cell Biol.</i> 2:139-144 (1992)	
	26.	Aldrian-Herrada et al., "A peptide nucleic acid (PNA) is more rapidly internalized in cultured neurons when coupled to a <i>retro-inverso</i> delivery peptide. The antisense activity depresses the target mRNA and protein in magnocellular oxytocin neurons," <i>Nucleic Acids Research</i> 26:4910-4916 (1998)	
	27.	Bahramian et al., "Transcriptional and Posttranscriptional Silencing of Rodent $\alpha 1(I)$ Collagen by a Homologous Transcriptionally Self-Silenced Transgene," <i>Molecular and Cellular Biology</i> , 274-283 (1999)	
	*	Bartel and Szostak, "Isolation of New Ribozymes From a Large Pool of Random Sequences," <i>Science</i> 261:1411-1418 (1993)	
	28.	Bass, "The short answer," <i>Nature</i> 411:428-429 (2001)	
	*	Beaucage and Iyer, "The Functionalization of Oligonucleotides Via Phosphoramidite Derivatives," <i>Tetrahedron</i> 49:1925-1963 (1993)	
	29.	Beaudry and Joyce, "Directed Evolution of an RNA Enzyme," <i>Science</i> 257:635-641 (1992)	
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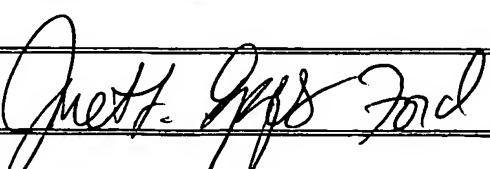
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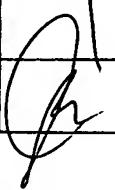
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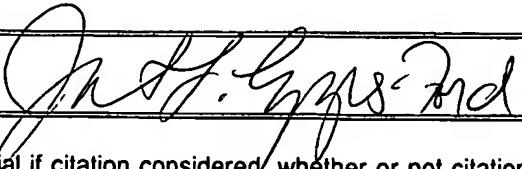
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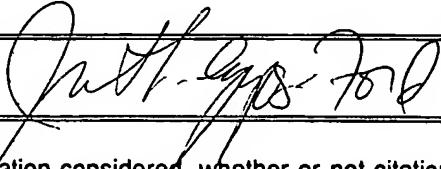
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